Sub. B' cont.

a transient generator

wherein the at least one incoming control signal is used to control events and parameters associated with the at least one control signal generator.

Q2 cont.

3. (Once Amended) The system of claim 1 wherein said at least one outgoing real-time digital control signal is in the form of a MIDI message.

4. (Once Amended) The method of claim 2 wherein said at least one outgoing real-time digital control signal is in the form of a MIDI message.

5. Cancelled

6. Cancelled

Please add the following new claims:

7. The system of claim 1 wherein the at least one control signal generator is a transient generator comprising an envelope generator with at least one parameter controlled by the at least one incoming control signal.

Q3

8. The system of claim 1 wherein the at least one control signal generator is a transient generator comprising a ramp generator with at least one parameter controlled by the at least one incoming control signal.

9. The system of claim 1 wherein the at least one control signal generator is a transient generator comprising a slew limiter with at least one parameter controlled by the at least one incoming control signal.

10. The method of claim 2 wherein the at least one control signal generator is a transient generator comprising an envelope generator with at least one parameter controlled by the at least one incoming control signal.

11. The method of claim 2 wherein the at least one control signal generator is a transient generator comprising a ramp generator with at least one parameter controlled by the at least one incoming control signal.

12. The method of claim 2 wherein the at least one control signal generator is a transient generator comprising a slew limiter with at least one parameter controlled by the at least one incoming control signal.

13. The system of claim 3 wherein the at least one incoming control signal comprises MIDI messages.

14. The method of claim 4 wherein the at least one incoming control signal comprises MIDI messages.

15. A method for generating at least one outgoing digital control signal utilizing at least one control signal processor, the method comprising:

processing a first incoming real-time control signal;

processing a second incoming control signal; and

determining the at least one outgoing digital control signal based upon a combination of the first incoming real-time control signal and the second incoming control signal.

16. The method of claim 15 wherein the first incoming real-time control signal and the second incoming control signal comprises MIDI messages.

17. The method of claim 15 wherein the at least one outgoing digital control signal comprises MIDI messages.

18. The method of claim 15 wherein both the first incoming real-time control signal and the second incoming control signal comprise values, and wherein the control signal processor performs one operation selected from the group consisting of:

- multiplication of the values of the first and second incoming control signals;
- addition of the values of the first and second incoming control signals.

19. The method of claim 15 wherein a temporal sequence of the first and second incoming control signals is used to generate the at least one outgoing digital control signal.

20. A method for processing an incoming real-time MIDI control signal, the method comprising:

generating an outgoing real-time MIDI control signal, wherein said generating is performed by one or more message conversion methods selected from the group consisting of:

- changing an incoming MIDI note number value to an outgoing MIDI continuous controller value
- changing an incoming MIDI note velocity value to an outgoing MIDI continuous controller value
- changing an incoming MIDI continuous controller value to an outgoing MIDI note value
- changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with scaling
- changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with offset
- changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with complementary magnitude
- changing an incoming MIDI note number value to an outgoing MIDI note number value according to variably transposed intelligent harmony.